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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## Listing of Claims:

- 1. (Canceled)
- 2. (Previously Presented) A substantially pure nucleic acid comprising a nucleotide sequence encodes the amino acid sequence of SEQ ID NO:6.
  - 3-4 (Canceled)
- 5. (Previously Presented) A substantially pure nucleic acid that encodes a fragment of the polypeptide of SEQ ID NO: 6 of at least 60 amino acids in length.
  - 6-9 (Canceled)
- 10. (Currently Amended) A vector comprising the nucleic acid of any of claims 2 [[, 3]] or 5.
- 11. (Currently Amended) A cell comprising <u>a recombinant nucleic acid that includes</u> the nucleic acid of any of claims 2 [[, 3]] or 5.
  - 12. (Canceled)

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13. (Currently Amended) A method of manufacturing an Helios a polypeptide comprising culturing the cell of claim 11 in a medium to express the Helios polypeptide encoded by the recombinant nucleic acid.

14-20. (Canceled)

21. (Previously Presented) A substantially pure nucleic acid consisting of a nucleotide sequence encoding SEQ ID NO: 6.

22-24 (Canceled)

- 25. (Previously Presented) A substantially pure nucleic acid comprising the coding sequence of SEQ ID NO:5.
- 26. (Currently Amended) An oligonucleotide comprising between 30 and 150 contiguous nucleotides of a nucleotide sequence encoding SEQ ID NO: 6.
- 27. (Previously Presented) The oligonucleotide of claim 26, further comprising a label group.
- 28. (Previously Presented) The oligonucleotide of claim 29, wherein the label group is selected from the group consisting of: a radioisotope, a fluorescent compound, an enzyme, and an enzyme co-factor.
- 29. (New) A substantially pure nucleic acid comprising a nucleotide sequence that encodes the amino acid sequence of SEQ ID NO: 2 or SEQ ID NO: 4.

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30. (New) The nucleic acid of claim 29, wherein the nucleotide sequence encodes the amino acid sequence of SEQ ID NO: 2.

- 31. (New) The nucleic acid of claim 29, wherein the nucleotide sequence encodes the amino acid sequence of SEQ ID NO: 4.
- 32. (New) The nucleic acid of claim 30, wherein the nucleotide sequence comprises the coding sequence of SEQ ID NO: 1.
- 33. (New) The nucleic acid of claim 31, wherein the nucleotide sequence comprises the coding sequence of SEQ ID NO: 3.
  - 34. (New) A vector comprising the nucleic acid of claim 30.
  - 35. (New) A vector comprising the nucleic acid of claim 31.
- 36. (New) A cell comprising a recombinant nucleic acid that includes the nucleic acid of claim 30.
- 37. (New) A cell comprising a recombinant nucleic acid that includes the nucleic acid of claim 31.
- 38. (New) A method of manufacturing a polypeptide comprising culturing the cell of claim 36 or 37 in a medium to express the polypeptide encoded by the recombinant nucleic acid.

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39. (New) A substantially pure nucleic acid that comprises a polypeptide coding sequence that hybridizes to the nucleotide sequence of SEQ ID NO:5 under high stringency conditions (i) or (ii):

- (i) hybridization in 480 ml formamide, 240 ml 20x SSC, 10 ml 2 M Tris.Cl, pH 7.6, 10 ml 100x Denhardts solution, 50 ml deionized water, 200 ml 50% dextran sulfate, and 10 ml 10% SDS; and wash in 0.2x SSC and 1% sodium dodecyl sulfate (SDS); or
- (ii) hybridization in 1% crystalline bovine serum albumin (BSA), 1 mM EDTA, 0.5 M NaHPO<sub>4</sub>, pH 7.2, and 7% SDS; and wash in 1 mM Na<sub>2</sub>EDTA, 40 mM NaHPO<sub>4</sub>, pH 7.2, and 1% SDS at 65°C.
- 40. (New) A substantially pure nucleic acid that hybridizes to the nucleotide sequence of SEQ ID NO:5 under high stringency conditions (i) or (ii):
- (i) hybridization in 480 ml formamide, 240 ml 20x SSC, 10 ml 2 M Tris.Cl, pH 7.6, 10 ml 100x Denhardts solution, 50 ml deionized water, 200 ml 50% dextran sulfate, and 10 ml 10% SDS; and wash in 0.2x SSC and 1% sodium dodecyl sulfate (SDS); or
- (ii) hybridization in 1% crystalline bovine serum albumin (BSA), 1 mM EDTA, 0.5 M NaHPO<sub>4</sub>, pH 7.2, and 7% SDS; and wash in 1 mM Na<sub>2</sub>EDTA, 40 mM NaHPO<sub>4</sub>, pH 7.2, and 1% SDS at 65°C.
- 41. (New) The nucleic acid of claim 39 or 40 hybridizes to the nucleotide sequence of SEQ ID NO:5 under high stringency conditions that include 80 ml formamide, 240 ml 20x SSC, 10 ml 2 M Tris.Cl, pH 7.6, 10 ml 100x Denhardts solution, 50 ml deionized water, 200 ml 50% dextran sulfate, and 10 ml 10% SDS; and wash in 0.2x SSC and 1% sodium dodecyl sulfate (SDS).
- 42. (New) The nucleic acid of claim 41 or 40 hybridizes to the nucleotide sequence of SEQ ID NO:5 under high stringency conditions that include 1% crystalline bovine serum

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albumin (BSA), 1 mM EDTA, 0.5 M NaHPO<sub>4</sub>, pH 7.2, and 7% SDS; and wash in 1 mM Na<sub>2</sub>EDTA, 40 mM NaHPO<sub>4</sub>, pH 7.2, and 1% SDS at 65°C.